

Specification

Direct fired absorption chiller heater (A series COP 1.06)

Model name (WCDA)			005	006	007	008
Cooling capacity	RT		50	60	70	80
	kW		176	211	246	281
Heating capacity	103kcal/h		182	218	254	291
	kW		212	253	295	338
Chilled water data	Temperature	°C	12 → 7			
	Water flow rate	m ³ /h	30.3	36.3	42.4	48.4
	Pressure drop	mAq	3.0	3.3	2.4	2.5
	Connection size	A(mm)	80			
		B(inch)	3			
Hot water data	Temperature	°C	54 → 60			
	Water flow rate	m ³ /h	30.3	36.3	42.4	48.4
	Pressure drop	mAq	3.0	3.3	2.4	2.5
	Connection size	A(mm)	80			
		B(inch)	3			
Cooling water data	Temperature	°C	32 → 37.6			
	Water flow rate	m ³ /h	50	60	70	80
	Pressure drop	mAq	4.4	5.2	3.9	4.2
	Connection size	A(mm)	100			
B(inch)		4				
Fuel (gas)	Cooling	Nm ³ /h	15.3	18.4	21.5	24.5
	Heating	Nm ³ /h	21.1	25.3	29.5	33.7
Electrical data	Source	V	3ø 220/380/440V 50Hz (60Hz)			
	Absorbent pump	kW(A)	1.2(4.1)	1.2(4.1)	1.2(4.1)	1.2(4.1)
	Refrigerant pump	kW(A)	0.2(1.1)	0.2(1.1)	0.2(1.1)	0.2(1.1)
	Purge pump	kW(A)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)
	Burner blower (gas)	kW(A)	0.37(1.0)	0.37(1.0)	0.74(2.3)	0.74(2.3)
	Control circuit	kW(A)	0.3(0.5)			
	Total current	A	8.2	8.2	9.5	9.5
	Wire size	mm ²	4			
	Power	kVA	5.4	5.4	6.2	6.2
	Dimension	Length	mm	1,976	1,976	2,480
Width		mm	1,875	1,875	1,875	1,875
Height		mm	1,852	1,852	1,852	1,852
Rigging	Operating	ton	3.2	3.4	3.8	4.0
	Total shipping	ton	2.9	3.1	3.5	3.7
Flue connection size	mm	190x100	190x100	270x150	270x150	
Clearance for tube removal	mm	1,700	1,700	2,200	2,200	

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h
 2. Standard water side pressure (chilled & hot & cooling water circuit): 5kgf/cm²G (490kPa)
 3. Standard gas pressure: 200mmAq
 4. Standard gas low calorific value: 9360kcal/Nm³
 5. The currents and electricity consumptions are based on 3Ph/380V/50Hz (60Hz).
 6. The power supply wire size is based on the metal conduit and on 40°C ambient temperature.
 7. Due to our policy of innovation some specifications may be changed without notification.
 8. For information other than those in the above table, contact the nearest LG Electronics office.

Steam fired absorption chiller

Model name (WCSS)			010	012	015	018	021	024	028	032	036	040	045	050
Cooling capacity	RT		100	120	150	180	210	240	280	320	360	400	450	500
	kW		352	422	527	633	738	844	985	1,125	1,266	1,407	1,582	1,758
Chilled water data	Temperature	°C	12 → 7											
	Water flow rate	m ³ /h	60.5	72.6	90.7	108.9	127.0	145.2	169.3	193.5	217.7	241.9	272.2	302.4
	Pressure drop	mAq	6.5	6.4	8.0	8.3	7.5	7.9	5.1	5.5	5.8	6.1	5.2	5.5
	Connection size	A(mm)	100	100	100	100	125	125	150	150	150	150	200	200
B(inch)		4	4	4	4	5	5	6	6	6	6	8	8	
Cooling water data	Temperature	°C	32 → 37.5											
	Water flow rate	m ³ /h	100	120	150	180	210	240	280	320	360	400	450	500
	Pressure drop	mAq	3.9	4.4	6.5	7.7	5.6	6.2	10.9	12.1	8.7	9.4	10.3	11.2
	Connection size	A(mm)	125	125	125	125	150	150	200	200	200	200	250	250
B(inch)		5	5	5	5	6	6	8	8	8	8	10	10	
Electrical data	Source	V	3ø 220/380/440V 50Hz (60Hz)											
	Total current	A	8.5	8.5	9.5	9.5	9.5	9.5	13.7	13.7	13.7	13.7	15.4	15.4
	Wire size	mm ²	4											
	Power	kVA	5.6	5.6	6.2	6.2	6.2	6.2	9.0	9.0	9.0	9.0	10.1	10.1
	Absorbent pump no.1	kW(A)	1.5(5.43)	1.5(5.43)	2.4(8.4)	2.4(8.4)	2.4(8.4)	2.4(8.4)	3.4(10.3)	3.4(10.3)	3.4(10.3)	3.4(10.3)	3.7(12.0)	3.7(12.0)
	Absorbent pump no.2	kW(A)	n/a											
Dimension	Refrigerant pump	kW(A)	0.2(1.1)	0.2(1.1)	0.2(1.1)	0.2(1.1)	0.2(1.1)	0.2(1.1)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)
	Purge pump	kW(A)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)
	Length	mm	2,650	2,650	3,670	3,670	3,730	3,730	4,750	4,750	4,850	4,850	4,850	4,850
	Width	mm	1,775	1,775	1,775	1,775	1,880	1,880	1,880	1,880	2,110	2,110	2,250	2,250
	Height	mm	2,030	2,030	2,030	2,030	2,300	2,300	2,300	2,300	2,550	2,550	2,780	2,780
Rigging	Operating	ton	4.2	4.4	5.5	5.7	6.8	7.1	8.4	8.8	10.8	11.2	13.2	13.6
	Total shipping	ton	3.8	4.0	5.0	5.1	6.1	6.3	7.5	7.8	9.6	9.9	11.6	11.9
Fuel	Steam flow rate	kg/h	440	528	660	792	924	1,060	1,230	1,410	1,580	1,760	1,980	2,200
	Steam inlet	A(mm)	50	50	50	50	65	65	65	65	80	80	80	80
		B(inch)	2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	3	3	3	3
	Drain outlet	A(mm)	25	25	25	25	25	25	25	25	40	40	40	40
		B(inch)	1	1	1	1	1	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2
	Steam control valve	A(mm)	25	40	40	40	40	40	50	50	50	50	65	65
B(inch)		1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2	2 1/2	2 1/2	
Clearance for tube removal	mm	2,400	2,400	3,400	3,400	3,400	3,400	4,500	4,500	4,500	4,500	4,500	4,500	

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h
 2. Standard water side pressure (chilled & cooling water circuit): 8kgf/cm²G (785kPa)
 3. Standard steam pressure: 8kgf/cm²G (785kPa)
 4. The currents and electricity consumptions are based on 3Ph/380V/50Hz (60Hz).
 5. The power supply wire size is based on the metal conduit and on 40°C ambient temperature.
 6. Due to our policy of innovation some specifications may be changed without notification.
 7. For information other than those in the above table, contact the nearest LG Electronics office.

Specification

Steam fired absorption chiller

Model name (WCSS)		056	063	070	080	090	100	110	120	130	140	150	
Cooling capacity	RT	560	630	700	800	900	1,000	1,100	1,120	1,300	1,400	1,500	
	kW	1,969	2,215	2,461	2,813	3,165	3,516	3,868	3,938	4,571	4,923	5,274	
Chilled water data	Temperature	°C 12 -- 7											
	Water flow rate	m³/h	338.7	381.0	423.4	483.8	544.3	604.8	665.3	725.8	786.2	846.7	907.2
	Pressure drop	mAq	5.2	7.1	9.4	4.7	6.4	8.4	6.2	7.9	9.8	8.0	9.8
	Connection size	A(mm)	200	200	200	250	250	250	300	300	300	350	350
		B(inch)	8	8	8	10	10	10	12	12	12	14	14
Cooling water data	Temperature	°C 32 -- 37.5											
	Water flow rate	m³/h	560	630	700	800	900	1,000	1,100	1,200	1,300	1,400	1,500
	Pressure drop	mAq	8.0	10.6	13.7	8.4	11.1	14.3	8.8	10.9	13.4	12.3	14.6
	Connection size	A(mm)	300	300	300	350	350	350	400	400	400	400	400
		B(inch)	12	12	12	14	14	14	16	16	16	16	16
Electrical data	Source	V	3ø 220/380/440V 50Hz (60Hz)										
	Total current	A	25.1	25.1	25.1	26.6	35.4	35.4	52.9	52.9	52.9	52.9	52.9
	Wire size	mm²	6	6	6	10	16	16	25	25	25	25	25
	Power	kVA	16.5	16.5	16.5	17.5	23.3	23.3	35.0	35.0	35.0	35.0	35.0
	Absorbent pump no.1	kW(A)	6.6(16.2)	6.6(16.2)	6.6(16.2)	6.6(16.2)	7.5(25.0)	7.5(25.0)	7.5(25.0)	7.5(25.0)	7.5(25.0)	7.5(25.0)	7.5(25.0)
	Absorbent pump no.2	kW(A)	2.0(5.2)	2.0(5.2)	2.0(5.2)	2.2(6.7)	2.2(6.7)	2.2(6.7)	5.5(21.0)	5.5(21.0)	5.5(21.0)	5.5(21.0)	5.5(21.0)
	Refrigerant pump	kW(A)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	0.4(1.4)	1.5(3.9)	1.5(3.9)	1.5(3.9)	1.5(3.9)	1.5(3.9)
Dimension	Purge pump	kW(A)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.4(1.45)	0.75(2.2)	0.75(2.2)	0.75(2.2)	0.75(2.2)	0.75(2.2)	
	Length	mm	5,060	5,600	6,100	5,710	6,210	6,730	6,170	6,690	7,180	6,830	7,330
	Width	mm	2,480	2,480	2,480	2,825	2,825	2,825	3,000	3,000	3,000	3,250	3,250
	Height	mm	3,000	3,000	3,000	3,400	3,400	3,400	3,600	3,600	3,600	3,650	3,650
Rigging	Operating	ton	18.2	19.8	21.4	28.1	30.1	32.2	35.7	38.0	40.1	44.4	46.8
	Total shipping	ton	15.7	17.1	18.5	24.1	25.8	27.7	31.2	33.2	35.1	38.8	41.0
Fuel	Steam flow rate	kg/h	2,470	2,780	3,080	3,520	3,960	4,400	4,840	5,280	5,720	6,160	6,600
	Steam inlet	A(mm)	100	100	100	125	125	125	150	150	150	150	150
		B(inch)	4	4	4	5	5	5	6	6	6	6	6
	Drain outlet	A(mm)	50	50	50	65	65	65	80	80	80	80	80
		B(inch)	2	2	2	2 1/2	2 1/2	2 1/2	3	3	3	3	3
	Connection size	A(mm)	65	65	80	80	80	80	100	100	100	100	100
		B(inch)	2 1/2	2 1/2	3	3	3	3	4	4	4	4	4
	Clearance for tube removal	mm	4,600	5,200	5,700	5,200	5,700	6,200	5,800	6,300	6,800	6,300	6,800

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h
 2. Standard water side pressure (chilled & cooling water circuit): 8kgf/cm²G (785kPa)
 3. Standard steam pressure: 8kgf/cm²G (785kPa)
 4. The currents and electricity consumptions are based on 3Ph/380V/50Hz (60Hz).
 5. The power supply wire size is based on the metal conduit and on 40°C ambient temperature.
 6. Due to our policy of innovation some specifications may be changed without notification.
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Hot water fired absorption chiller

Model name (WCMW)		003	004	005	007	008	010							
Cooling capacity	RT	28	30	38	40	47	50	61	65	75	80	94	100	
	kW	98	105	134	141	165	176	214	229	264	281	331	352	
Chilled water data	Temperature	°C 12-7 13-8 12-7 13-8 12-7 13-8 12-7 13-8 12-7 13-8 12-7 13-8												
	Water flow rate	m³/h	17.1	18.1	22.8	24.2	28.5	30.2	37	39.3	45.6	48.4	57	60.5
	Pressure drop	mAq	2.2	2.5	2.9	3.3	5.3	6	6.5	7.3	6.7	7.6	5.8	6.5
	Connection size	A(mm)	65	65	65	65	65	65	80	80	80	80	100	100
		B(inch)	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3	3	3	4	4
Cooling water data	Temperature	°C 31 -- 36.5												
	Water flow rate	m³/h	37.4	39.4	49.8	52.5	62.3	65.7	81	85.4	99.7	105.1	124.6	131.3
	Pressure drop	mAq	2.5	2.8	3.6	4	6.3	7	2.3	2.6	2.8	3.1	4.3	4.8
	Connection size	A(mm)	80	80	80	80	80	80	125	125	125	125	125	125
		B(inch)	3	3	3	3	3	3	5	5	5	5	5	5
Hot water circuit	Temperature	°C 95 -- 80												
	Water flow rate	ton/h	8.0	8.4	10.7	11.2	13.4	14	17.4	18.2	21.4	22.4	26.7	28
	Pressure drop	mAq	1.1	1.2	1.2	1.3	2.6	2.9	0.8	0.9	0.9	1	2.1	2.3
	Connection size	A(mm)	40	40	40	40	65	65	65	65	65	65	80	80
		B(inch)	1 1/2	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3
	Connection size of Control valve	A(mm)	40	40	40	40	40	40	50	50	65	65	65	65
		B(inch)	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2 1/2	2 1/2	2 1/2	2 1/2
Electrical data	Source	V 3ø 220/380/440V 50Hz (60Hz)												
	Total current	A	7.2	7.2	7.2	7.2	7.2	7.2	8.3	8.3	8.3	8.3	8.3	8.3
	Wire size	mm²	4											
	Power	kVA	4.7	4.7	4.7	4.7	4.7	4.7	5.4	5.4	5.4	5.4	5.4	5.4
	Absorbent pump no.1	kW(A)	1.2(4.1)	1.2(4.1)	1.2(4.1)	1.2(4.1)	1.2(4.1)	1.2(4.1)	2.0(5.2)	2.0(5.2)	2.0(5.2)	2.0(5.2)	2.0(5.2)	2.0(5.2)
	Absorbent pump no.2	kW(A)	n/a											
	Refrigerant pump	kW(A)	0.2(1.1)											
Dimension	Purge pump	kW(A)	0.4(1.45)											
	Length	mm	2,020	2,020	2,020	2,020	2,520	2,520	2,547	2,547	2,547	2,547	3,567	3,567
	Width	mm	1,394	1,394	1,396	1,396	1,396	1,396	1,355	1,355	1,355	1,355	1,355	1,355
	Height	mm	1,952	1,952	1,965	1,965	1,965	1,965	2,150	2,150	2,150	2,150	2,150	2,150
Rigging	Operating	ton	2.1	2.1	2.3	2.3	2.7	2.7	4.1	4.1	4.3	4.3	5.3	5.3
	Total shipping	ton	1.8	1.8	1.9	1.9	2.3	2.3	3.5	3.5	3.7	3.7	4.6	4.6
Clearance for tube removal	mm	2,000	2,000	2,000	2,000	2,400	2,400	2,400	2,400	2,400	2,400	3,400	3,400	

- Note: 1. 1RT = 3,024kcal/h, 1kW = 860kcal/h
 2. Standard water side pressure (chilled & cooling water circuit): 8kgf/cm²G (785kPa, 70-1020 RT), 5kgf/cm²G (490kPa, 30-50RT)
 3. Standard hot-water pressure: 8kgf/cm²G (785kPa)
 4. The currents and electricity consumptions are based on 3Ph/380V/50Hz (60Hz).
 5. The power supply wire size is based on the metal conduit and on 40°C ambient temperature.
 6. Due to our policy of innovation some specifications may be changed without notification.
 7. For information other than those in the above table, contact the nearest LG Electronics office.